SWP Weekly Water Quality Summary

February 10 to 16, 2010

Electrical Conductivity: Concentrations increased at Harvey O. Banks Pumping Plant (HBP) and at Barker Slough, but decreased at Check 41. Concentrations ranged from 296 µS/cm to 485 µS/cm (178 mg/L to 291 mg/L), below the Article 19 Monthly Average Objective of 440 mg/L (733 µS/cm). As of February 16, 2010, the lowest concentration of 296 µS/cm occurred at Check 41 while the highest concentration of 465 µS/cm occurred at Barker Slough. As of February 16, 2010, the EC concentration at HBP increased from 409 to 429µS/cm.

Bromide*: Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations. Concentrations ranged from 0.10 mg/L to 0.22 mg/L. As of February 16, Check 41 had the lowest concentration of 0.10 mg/L, while the highest concentration of 0.21 mg/L occurred at Barker Slough. The average daily bromide concentration at HBP was 0.18 mg/L as of February 16, 2010.

* Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: From February 10 to 16, turbidity levels decreased at HBP, Check 41 and Barker Slough. Turbidity levels ranged from 1.9 NTU to 81.6 NTU during the week. As of February 16, 2010, the lowest level of 1.6 NTU occurred at Check 41, while the highest level of 64.4 NTU occurred at Barker Slough. Turbidity levels at HBP decreased slightly from 14.6 NTU to 14.4 NTU, as of February 16, 2010.

Dissolved Organic Carbon (DOC): Concentrations decreased from 7.0 mg/L to 6.4 mg/L at HBP and from 2.3 mg/L to 1.3 mg/L at Edmonston, but increased from 5.6 mg/L to 5.7 mg/L at Check 13, as of February 16, 2010.

Taste and Odor Compounds: MIB and geosmin concentrations in the SWP ranged from non-detect to 7 ng/L at Clifton Court Inlet, HBP, Del Valle Check 7, Del Valle Outlet, O'Neill Forebay Check 13, San Luis Reservoir and Pacheco Pumping Plant as of February 10, 2010.

Ground water pump-ins to the California Aqueduct from February 10 to 16, 2010 totaled 7,053 AF. The break down of the total volume was:

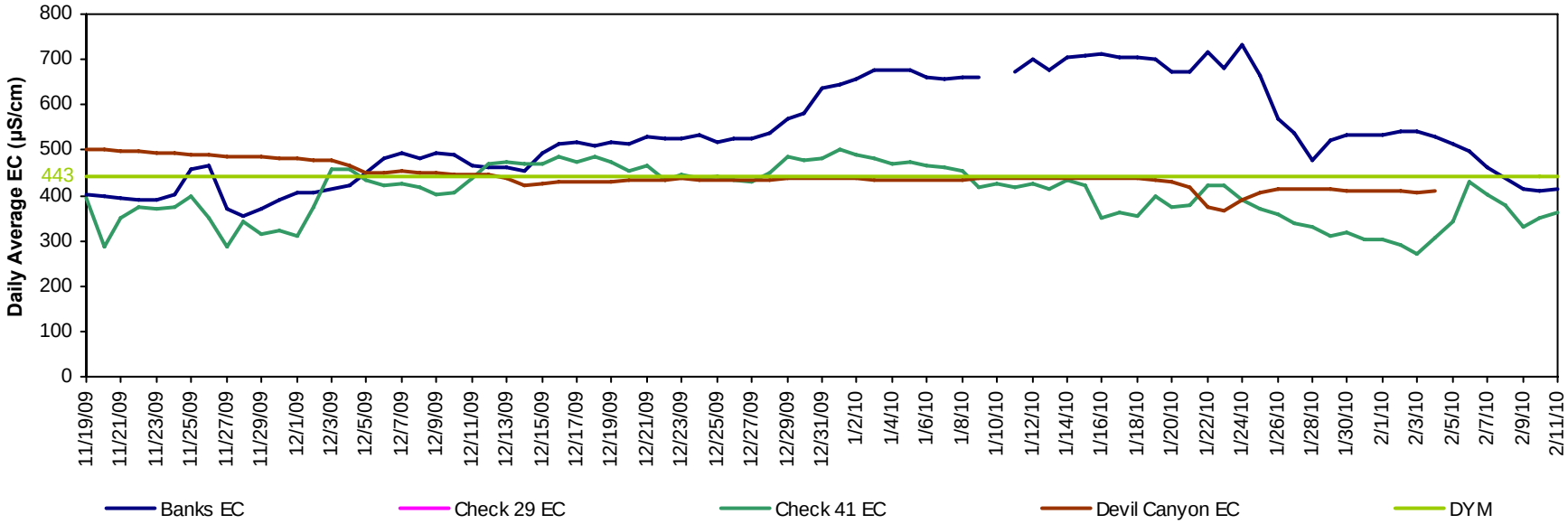
- Arvin Edison Water Storage District = 2,213 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 77 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 4,712 AF
- Semitropic (2&3) Water Storage District = 51 AF

As of February 16, 2010, no data were available for Devil Canyon and Check 29 due to malfunctioning instruments and the water quality station upgrades currently underway.

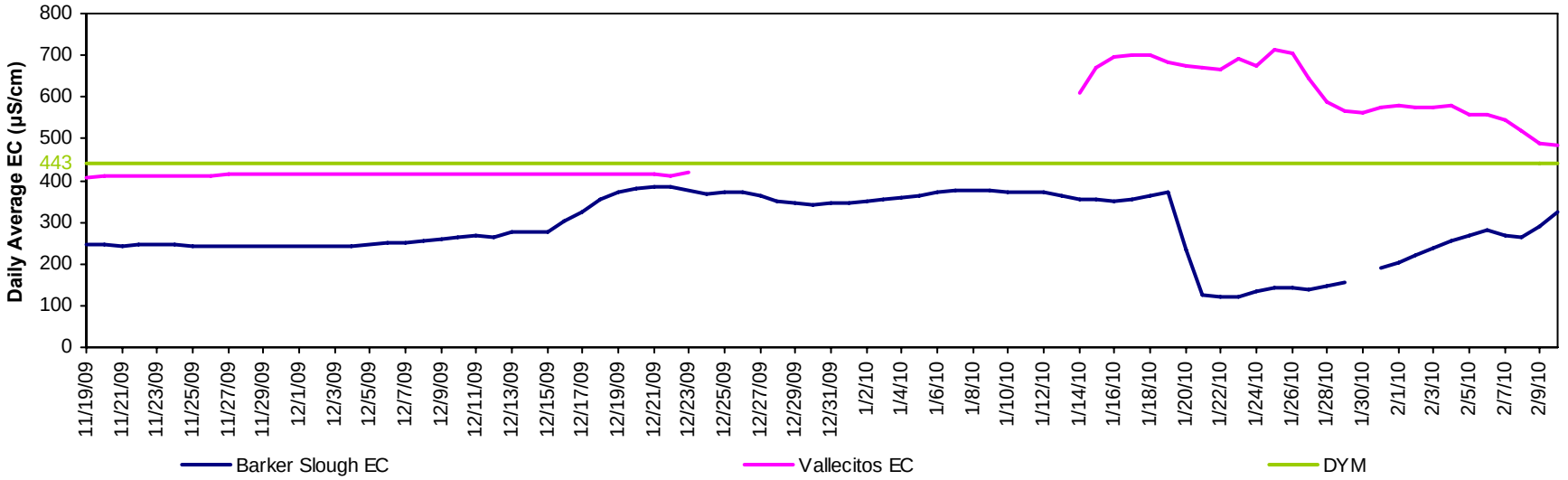
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston's daily AF pumping data, visit: www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

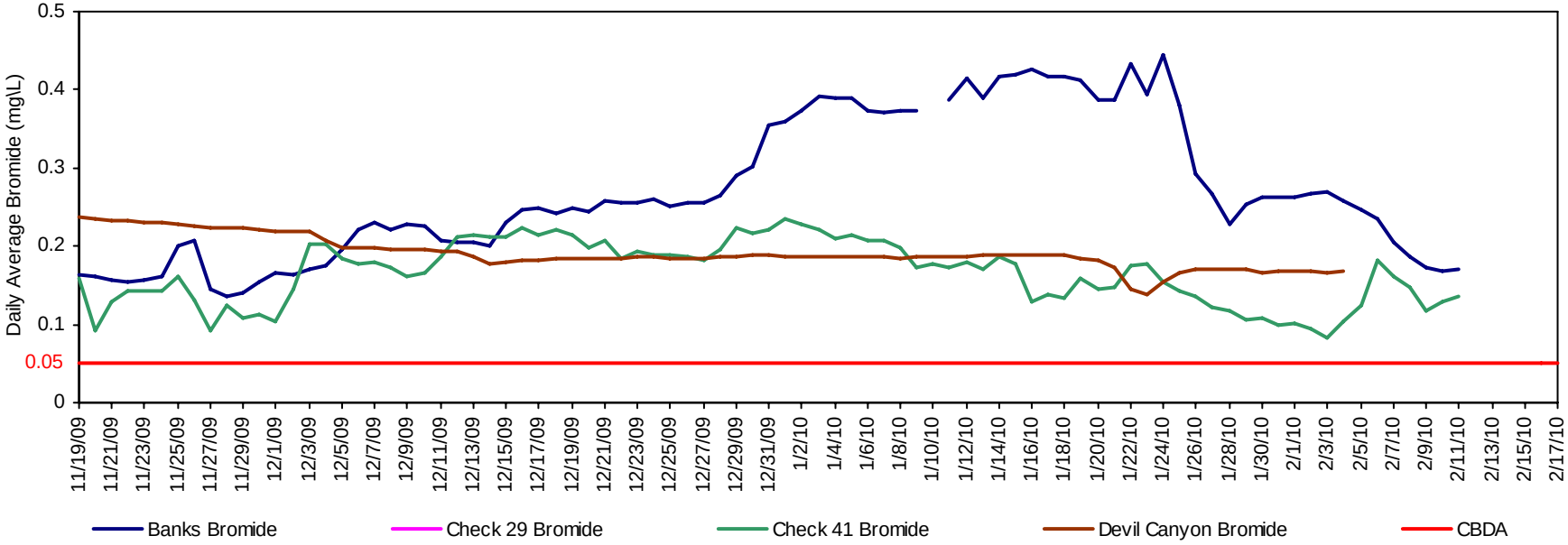
California Aqueduct - Electrical Conductivity



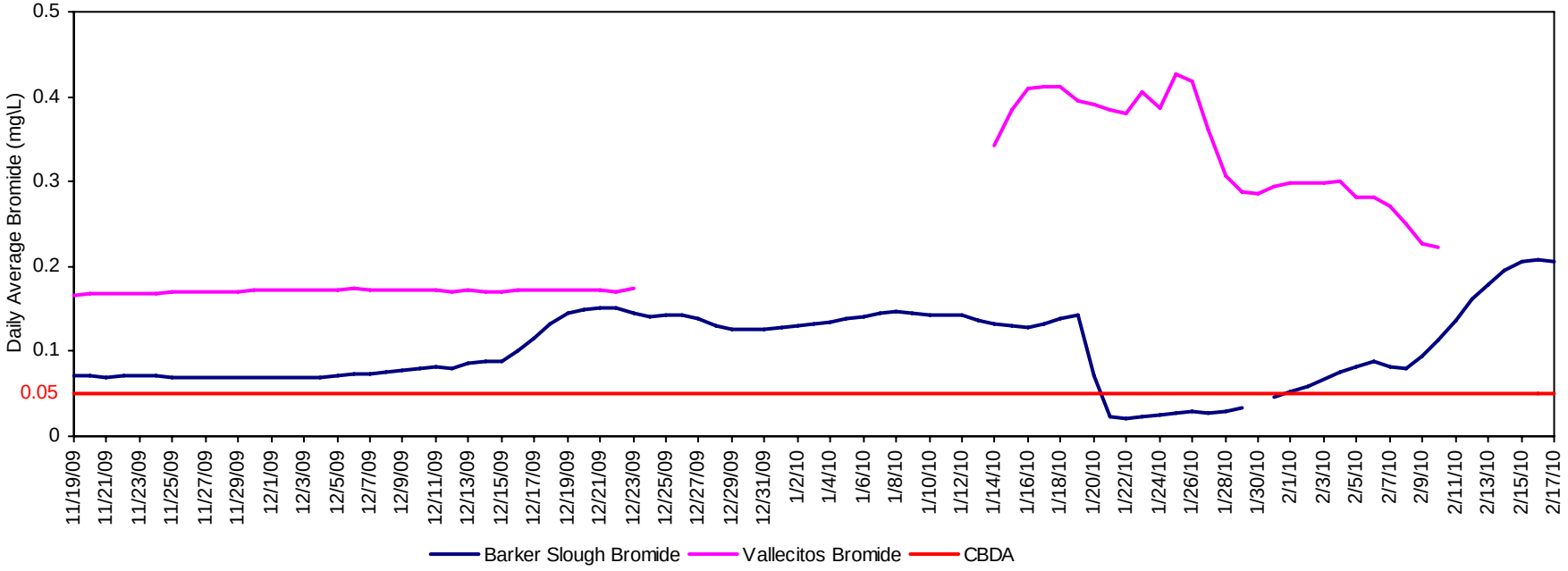
North and South Bay Aqueduct - Electrical Conductivity



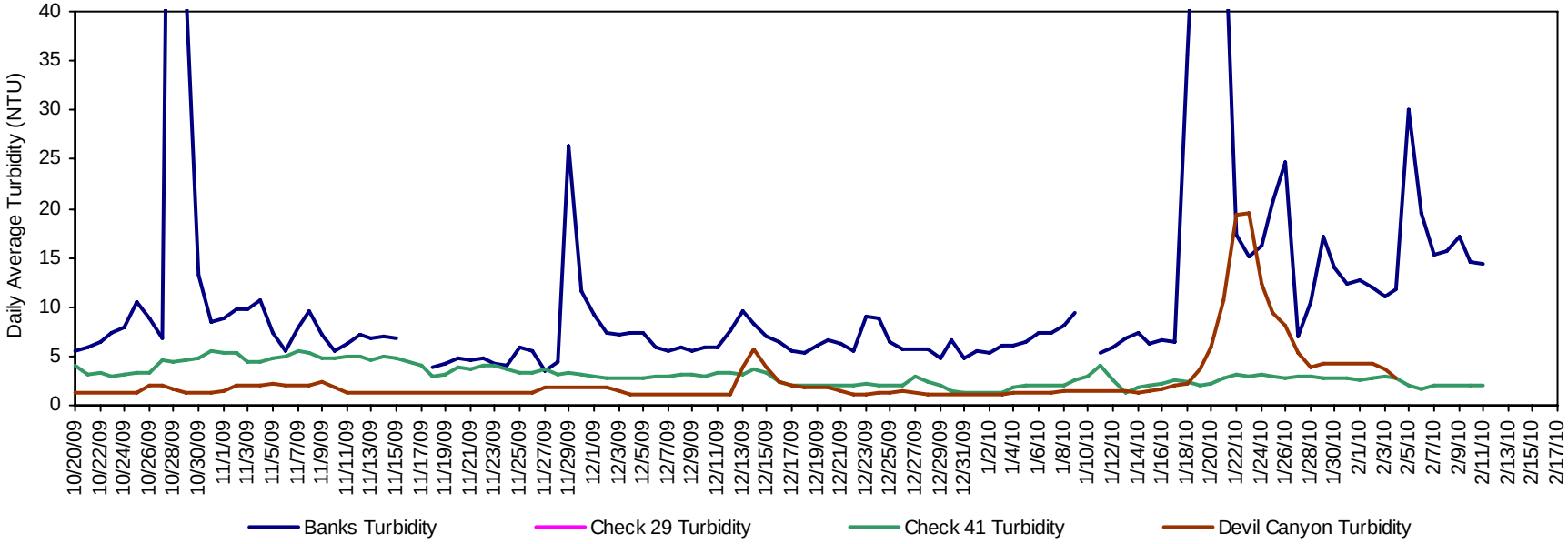
California Aqueduct - Calculated Bromide



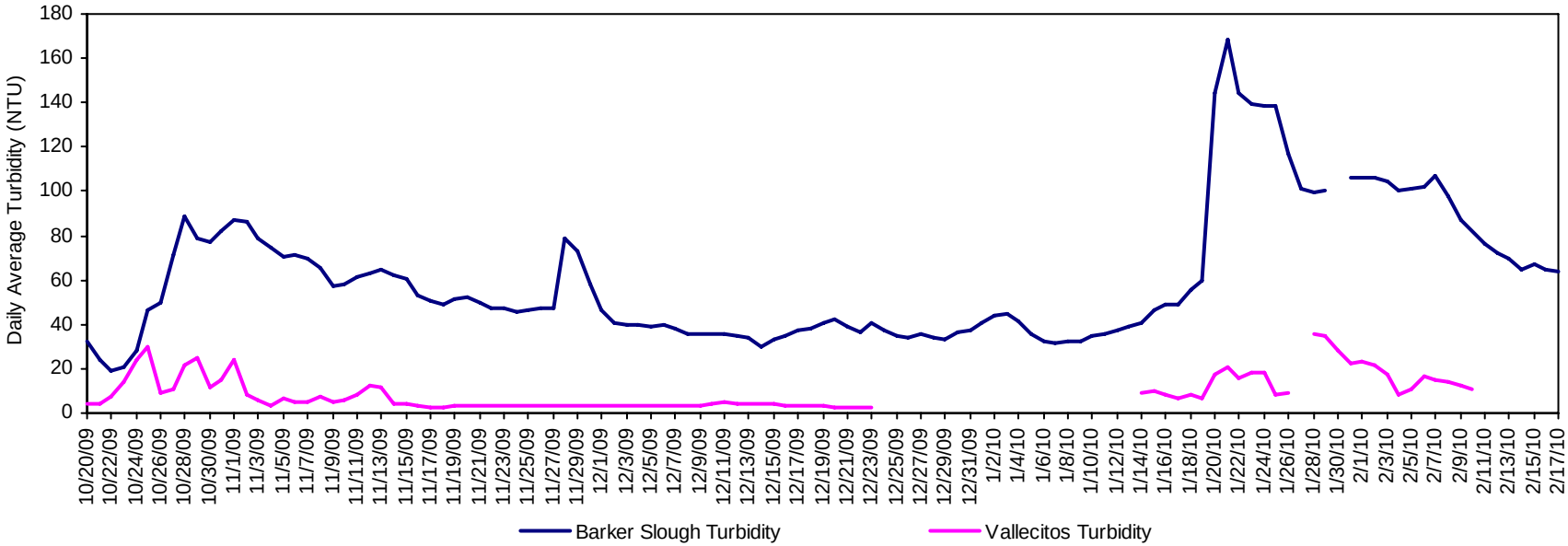
North and South Bay Aqueduct - Calculated Bromide

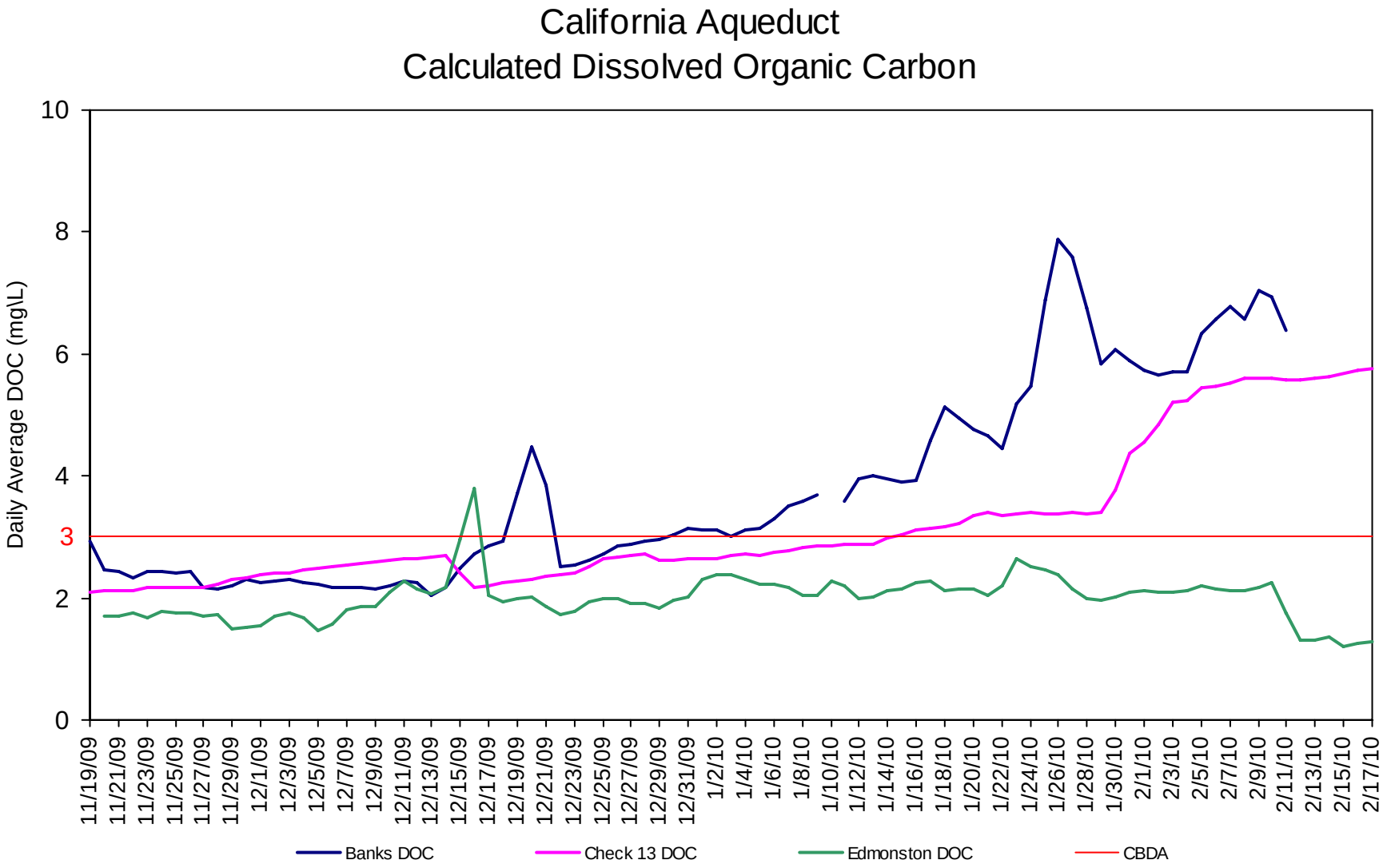


California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity




California Aqueduct
Calculated Dissolved Organic Carbon
Daily Average DOC (mg\L)
10
8
6
4
3
2
0
11/19/09
11/21/09
11/23/09
11/25/09
11/27/09
11/29/09
12/1/09
12/3/09
12/5/09
12/7/09
12/9/09
12/11/09
12/13/09
12/15/09
12/17/09
12/19/09
12/21/09
12/23/09
12/25/09
12/27/09
12/29/09
12/31/09
1/2/10
1/4/10
1/6/10
1/8/10
1/10/10
1/12/10
1/14/10
1/16/10
1/18/10
1/20/10
1/22/10
1/24/10
1/26/10
1/28/10
1/30/10
2/1/10
2/3/10
2/5/10
2/7/10
2/9/10
2/11/10
2/13/10
2/15/10
2/17/10
Banks DOC
Check 13 DOC
Edmonston DOC
CBDA